In the Claims:

Please cancel non-elected claims 1-6, 10-15, 21-27, 29-41, 44, 46, 49-51, leaving claims 7-9 16-20, 28, 42-43, 45, 47, 48, 52-59 pending in the application. New claims 60-62 are added.

Please amend claims 7, 16, 54 and 55 to read as follows:

C4

7. A recombinant DNA molecule having a gene sequence encoding a hormone receptor molecule, wherein said hormone receptor molecule is [~~selected from the group consisting of the LH/CG receptor, the~~] [a] FSH receptor[~~, and the TSH receptor~~][and wherein said DNA molecule is capable of hybridizing at 42°C in 20% formamide to a nucleic acid sequence from nucleotide 122 to and including nucleotide 2155 of SEQ ID NO:5].

C7

16. The recombinant molecule of claim 8 wherein said molecule expresses [~~either~~] said hormone receptor molecule when present in a host cell.

54. The vector of claim[s] 53 wherein said molecule is capable of hybridizing at 42°C in 20% formamide with the DNA sequence [~~encoding the FSH receptor shown in figure 6a and 6b~~][from nucleotide 122 to and including nucleotide 2155 of SEQ ID NO:5].

C8

55. The vector of claim 54 wherein said molecule is the DNA sequence encoding the FSH receptor [~~shown in figure 6a and 6b~~][of SEQ ID NO:6 or SEQ ID NO:7].

Please add the following new claims:

C9

60. The recombinant DNA molecule of claim 7, wherein said DNA molecule is capable of hybridizing at 50°C in 50% formamide to a nucleic acid sequence from nucleotide 122 to and including nucleotide 2155 of SEQ ID NO:5.

61. A method for producing a hormone receptor which comprises:

(a) constructing a vector that includes a gene sequence which encodes said hormone receptor;

(b) transforming a host cell with said vector comprising the recombinant DNA molecule of claim 60;

(c) culturing said transformed cell in a culture medium under conditions sufficient for said cell to express said gene sequences; and

(d) recovering said expressed hormone receptor; wherein said hormone receptor is a FSH receptor.

62. The vector of claim 53 wherein said molecule is capable of hybridizing at 50°C in 50% formamide with the DNA sequence from nucleotide 122 to and including nucleotide 2155 of SEQ ID NO:5.